

Question Form, Training at EDC, Nov. 30 - Dec. 4, 1998

Please record question in the designated space below, and provide the requested contact information to assist in directing the reply. Please write or print legibly.

Note: If you are submitting this after December 4, 1998, please fax it to:

Kenneth Prickett, Training Coordinator, **301-925-0438**

no later than **December 18, 1998**, so we may provide timely response.

Question:

Regenerating Granules in Response to Loss of Files from the Archive.

This section was not covered or skimmed over. Can you actually provide procedures on how to do some of the functions? For example, the overall process involves some of the following: 1) retrieval of the Production History, 2) creating production requests for replacement granules, 3) preparing PDPS granules lists. What are the steps needed to do the above three steps?

Is this something available under the current Drop? What are future considerations for this process?

It appears the retrieval process opens a can of worms for example, what is the process for Loss of Files from the Archive for ingested files? Or other losses, lets say metadata files?

Contact Information:

Name: Jeff Powell

Telephone: 605-594-6837

E-mail Address: powell@edcmail.cr.usgs.gov

Response: [Preparer: Paul Van Hemel (Phone: 301-925-1110; e-mail pvan@eos.hitc.com)] Recovery/regeneration of lost granules was addressed briefly in the Archive lesson taught at EDC on December 1, 1998; practical exercises included some of the applicable procedures (e.g., use of the **amass_log** script and **SYSLOG** to display AMASS errors; for the procedure practiced in the class, see page 76 of *ECS Training Material Volume 10: Archive Processing*.) Because the real system is used for training, with no actual files lost, full exercise of a recovery was not feasible. Detailed procedures are available in Document 611-CD-004-003, *Mission Operation Procedures - Drop 4PX, A Delta Iteration*, available through EDHS (<http://edhs1.gsfc.nasa.gov>). Refer to Section 17.9.6.2, p. 17-64, for SDSRV Retrieval of Granule Production History; refer to Section 13.1.6, p. 13-13 for creating Production Requests for replacement granules, and for preparing the PDPS Residual Granules list. Refer to Sections 17.9.2.3 through 17.9.2.3.2, page 17-54, for procedures on re-ingest or recovery of remotely inserted granules. Refer to Section 17.9.6.1, p. 17-62, for SDSRV Retrieval of File Location Metadata. Although

currently available and applicable, these procedures are subject to refinement, and further refinement is likely as ECS development continues.

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Question:

Data Management question:

How does the system keep track of incoming data throughout the entire system? For example, an Ingest operators ingest ASTER D-3 data. Can someone explain how to know that a granule of data on D-3 tape has made it to the archive? Specifically, how can a person relate a granule name to a file name in the archive? And to expand on this, if an operator dumped all the granule file names on product delivery record from one ASTER D-3 tape to a disk file. Can the operator run a script to verify all granule file names are in the archive? This will become very important for Management reporting.

Contact Information:

Name: Jeff Powell

Telephone: 605-594-6837

E-mail Address: powell@edcmail.cr.usgs.gov

Response: [Preparer: Paul Van Hemel (Phone: 301-925-1110; e-mail pvan@eos.hitc.com) with inputs from Byron Peters (Phone: 301-883-4077; e-mail bpeters@eos.hitc.com)] A wealth of information on how data are tracked and managed throughout ECS from ingest through archiving, processing, and distribution is available in documents 305-CD-100-004 *Version 2.0 Segment/Design Specification for the ECS Project* (December 1998) and 313-CD-006-005 *Version 2.0 ECS Internal ICD* (December 1998). Regarding ingest of data to the archive, it is possible to execute the AMASS **sysperf -kc** command and monitor the continuously updating output during the archive process. The output displays reads and writes, including queuing information on what is ready to go to tape, when it has gone, and when it has been written. When those are done and the values go to zero, the "migration" is complete and the data have been written to tape.

Scripts are being written that will help verify the relation between ingested files and file names in the archive. For example, a debug program, **vlk_data_debug**, is being prepared

(by Byron Peters) that will create a large file that lists every entry. It will be possible to **grep** for **fnode** and **wrf** (write fail) to find information about a failed scene. The ability to perform this verification will be available by launch.

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Question:

The ECS Data Order Tracking GUI shows orders and requests, listing "Order ID" and "Request ID" as part of the displayed data. Where do these IDs come from? Are they the same as the Order ID/Request ID from the Data Search and Order Tool? And/or the Data Distribution GUI?

Contact Information:

Name: Darla Duval

Telephone: 605-594-6993

E-mail Address: dduval@edcmail.cr.usgs.gov

Response: [Preparer: Paul Van Hemel (Phone: 301-925-1110; e-mail pvan@eos.hitc.com) with inputs from Xiao Yuan (Phone: 301-925-0587; e-mail xyuan@eos.hitc.com)] These numbers are generated in sequence by the MSS order tracking server at the time an order is placed, and are used to identify and track orders in the MSS data base. The Order Tracking GUI (or the Data Distribution GUI) displays orders and requests that are in the data base, including the associated ID numbers.

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Question:

On the Account Management GUI, what is the impact on the system of selecting each of the various valids for "Privilege Level?"

Contact Information:

Name: Russ Johnson

Telephone: 605-594-2646

E-mail Address: rjohnson@edcmail.cr.usgs.gov

Response: [Preparer: Paul Van Hemel (Phone: 301-925-1110; e-mail pvan@eos.hitc.com) with inputs from Richard Meyer (Phone: 301-925-0430; e-mail rmeyer@eos.hitc.com)] "Privilege Level" is a misnomer. It provides the default priority assigned to requests submitted by the user. The V0-to-ECS Gateway obtains it from the user profile and inserts it into the request being submitted.

With this release of ECS, the priority is honored by DDIST and STMGT. When DDIST needs to queue up requests, it will dequeue them by priority; and operations can configure the number of "distribution slots" that a certain priority gets allocated.

When STMGT needs to queue up requests (which does not happen too often), it will also dequeue by priority.

By default, INGST requests come in as very high; and PDPS requests come in as high. This ensures that priority is given to the push side. Xpress is used for expedited data.

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Question:

On the Account Management GUI, what is the meaning of the entry for "NASA User?" What is the impact on the system (privileges?) of selecting "Y" or "N" as the entry for this field?

Contact Information:

Name: Jim Dewald

Telephone: 605-594-2564

E-mail Address: jdewald@edcmail.cr.usgs.gov

Response: [Preparer: Paul Van Hemel (Phone: 301-925-1110; e-mail pvan@eos.hitc.com) with inputs from Xiao Yuan (Phone: 301-925-0587; e-mail xyuan@eos.hitc.com)] This entry is not used specifically by ECS; it reflects a distinction in the V0 Gateway. The V0 system permits tracking and reporting of system use levels by NASA personnel and others.

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Question:

On the Earth Science Online Directory lists of advertisements, what is the meaning of the designation "Signature Service?"

Contact Information:

Name: Russ Johnson

Telephone: 605-594-2646

E-mail Address: rjohnson@edcmail.cr.usgs.gov

Response: [Preparer: Paul E. Van Hemel (Phone: 301-925-1110; e-mail pvan@eos.hitc.com, with inputs from Lynne Case (Phone: 301-925-0359; e-mail lc case@eos.hitc.com)] Insertion, deletion, or updating of granules in the archive is achieved by execution of certain UNIX calls that are characterized by distinct UNIX signatures. When an ESDT is established, subscribable services are created for the insertion, deletion, or update of a granule of its type, based on these signatures. These subscribable services are "Signature Services."

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Question:

On the Remedy User Contact Log Schema (GUI), there are three fields near the bottom labeled "Entered Time," "Modified Date," and "Last-modified By." How do these fields get populated? Note, if they are system-generated, they seem not to be working; if system-generated, under what circumstances do they change?

Contact Information:

Name: Jim Dewald

Telephone: 605-594-2564

E-mail Address: jdewald@edcmail.cr.usgs.gov

Response: [Preparer: Ben Floyd (Phone: 301-925-0518; e-mail bfloyd@eos.hitc.com)]

The data in the fields, Entered Time (core field, Remedy name is Create-date), Modified-date, and Last-modified-by are set by the Remedy Action Request System.

Entered Time: This field contains the date and time at which the entry was initially created in the database. That is, it contains the date and time (*after you click the Apply button on the Submit screen*) that the record was created in the database. Data for this field can be seen after you dismiss the Submit screen and then go back and display the recent entry. One way to view the entry is follow this path from the Contact Log schema screen: Query menu, List option > the Query List screen, select recent entry, > Query menu, Display option.

Modified-date: This field contains the date/time the record was last modified. If you bring the record up in the Modify Individual mode, make a change to the record, and *then click the Apply button*, the change is inserted into the database and the Modified-date field is changed immediately to reflect the date and time of that change.

Last-modified-by: This field contains the login name of the user who last altered the record. If you bring the record up in the Modify Individual mode, make a change to the record, and *then click the Apply button*, the change is inserted into the database and the

Last-modified-by field is changed immediately to reflect the login name of the user that made the change.

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Question:

What drop will have Ingest Polling available?

Contact Information:

Name: Jeff Powell

Telephone: 605-594-6837

E-mail Address: powell@edcmail.cr.usgs.gov

Response: [Preparer: Ralph Fuller (Phone: 301-883-4103; e-mail rfuller@eos.hitc.com)]

Polling is included in the software currently deployed at the DAACs.

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Question:

At what point does the Production Planning system become an automatic process, or must it be continuously supported by Science Software and Integration in a manual process?

Contact Information:

Name: Martin D. Skye

Telephone: 605-594-2708

E-mail Address: mskye@edcmail.cr.usgs.gov

Response: [Preparer: Ralph Fuller (Phone: 301-883-4103; e-mail rfuller@eos.hitc.com)]

The Science Software Integration and Test (SSI&T) function will continue to be needed in support of production planning and processing as new science software applications (or new versions of science software) are developed by the Science Computing Facilities (SCFs). The production planning and processing functions are intended to perform processing of routine data products for the SCFs. SSI&T registers the science software that the SCFs provide and verifies that the science software works in the ECS operational environment. The registration and checkout processes are largely manual processes and are likely to continue to be so for the indefinite future.

The planning process is managed by the DAAC Production Planner (or Production Scheduler), who creates production requests and production plans to schedule production processing in support of the routine processing requested by the SCFs. However, at some time in the future the ASTER team will be allowed to create On-Demand Production Requests (OPRs) that will be passed automatically to data processing without the direct intervention of the Production Planner/Scheduler. Until that function becomes available (and it won't be soon) the workaround is for ASTER to make a request to the DAAC Production Planner/Scheduler to create the necessary production requests and production plans as the need arises.

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Question:**Production Planning & Processing**

How does the Production Monitor actually monitor DPR's through the ECS system? It appears that there is not an easy way to tie a pending, waiting, or active DPR to a system status. Obviously a running DPR will be running in AUTOSYS. But, how does the operator know what the status is of a non-active DPR. It could be completed or waiting for input. When waiting for input, how does the operator know what the DPR is actually waiting for? Please define some procedures for this process.

rfuller@eos.hitc.com]

Two buttons on the AutoSys Ops Console (alias Job Activity Console) provide information on DPRs that are waiting or have completed. The buttons are near the bottom center of the GUI and are labelled "Jobs Completed" and "Jobs Waiting." Clicking on the "Jobs Completed" button results in the generation of a report that shows the following types of information on completed jobs that have not been cleaned out of the PDPS database yet:

- DPR ID
- Completion State (i.e., SUCCESS, SUCC_DEL, FAILEDPGE, or CANCELED)
- Priority (from the DPR)
- Order by Completion State
- Priority

Clicking on the "Jobs Waiting" button results in the generation of a report that shows the following types of information on jobs that are waiting to be processed:

- DPR ID
- Completion State (i.e., CQ_HOLD or CQ_RELEASE)

- Predicted Start Time (as specified in the DPR)
- Order by Completion State
- Priority

If the preceding reports do not adequately meet your needs, it is possible to create custom reports from the data in the PDPS database. The database tables and fields are described in 311-CD-106-004, Version 2.0 Planning and Data Processing Subsystem Database Design and Schema Specifications for the ECS Project. Your Database Administrator should be able to help set up custom reports if necessary.